

Houghton - e. Spring.

February 23rd 1905.

To

The Rural District Council of Houghton - e. Spring.

Mr Chairman and Gentlemen,

It is again my duty to submit for your consideration my Annual Report for the Northern Division of the Houghton - e. Spring Union for the year ending December 1904.

I have appended to my Report all the Forms of the Local Government Board with the exception of Table II. which refers to sub-districts or parishes of known population and is therefore not applicable to our district which is a district in itself and not made up of sub-districts or parishes of known population.

In addition to the population Table I gives the Vital Statistics of the whole district for the year 1904 and the ten previous years.

Table III gives the cases of infectious sickness during the year and Table IV the causes of and ages at death during the year.

By referring to Table I we shall find that 269 deaths have been registered during the year as having actually taken place within the district, but in estimating the mortality we must take into consideration the deaths occurring in public institutions to persons belonging to the district as well as to non-residents, or those persons brought into the district on account of sickness or other causes and

dying in public institutions there and residents or those persons who have been taken out of the district on account of sickness or other infirmity and have died in public institutions elsewhere so that after making all the necessary alterations and corrections the total number of deaths upon which the mortality must be based becomes increased to 275. If we estimate the population at the middle of the year as required by the Local Government Board at 15,129 this is equivalent to a death-rate of 18.1 per 1,000 per annum and an infant mortality of 60.04 per cent.

The rate per 1,000 registered births is 190.8

The following table gives the death-rate from the principal zymotic diseases including Phthisis and the acute diseases of the lungs for the last three years.

No.	Diseases.	1902.	1903.	1904.
1.	Small-pox	—	—	—
2.	Scarlet fever	.06	.01	.006
3.	Diphtheria & Membranous Croup	.4	.6	.036
4.	Typhoid & Continued fever	.26	.2	.018
5.	Measles	.06	.5	.042
6.	Whooping Cough	.2	—	.042
7.	Diarrhoea, Dysentery & Enteritis	.33	.4	.042
8.	Phthisis	.6	1.06	.036
9.	Acute diseases of the Lungs	2.4	2.8	4.09
10.	Other Tubercular diseases	—	—	.042

Births.—The births for the year number 584—

320 Males.

264 Females.

representing a birth-rate of 38.4 per 1,000 per annum and natural gain to the population of 312.

The following table gives the number of births—male

and female, including birth-rate for the last four years—

Year.	Births.	Males.	Females.	Rate.	Increase.
1901	590	313	277	40.7	302
1902	568	270	298	38.5	327
1903	584	286	298	39	299
1904	587	320	267	38.7	312

As I have said Table IV gives the mortality classified according to diseases, ages and localities. I am unable, however, to apportion the births to the various parishes as I am not furnished with the necessary information, nor am I able to estimate the population of the different parishes and give the death-rate appropriate to each. The deaths, of course, are properly localised in the returns of the Registrar but the ~~deaths~~ births occurring in the whole district are simply given without reference to the parishes in which they occur.

New cases of sickness.— The Notification Act has been in force in this division of the Union since January 1890.

In all 173 cases have been notified during the year, viz:—

- 104 Scarlet fever.
- 23 Typhoid fever.
- 20 Erysipelas.
- 28 Diphtheria.
- 3 Group.

as compared with 212 for the previous year, viz:—

- 121 Scarlet fever.
- 24 Typhoid fever.
- 22 Erysipelas.
- 44 Diphtheria.
- 1 Group.

On receiving the Notification Forms it is my invariable practice to visit and inspect the premises occupied by

Year	1900	1901	1902	1903	1904
1900	100	100	100	100	100
1901	100	100	100	100	100
1902	100	100	100	100	100
1903	100	100	100	100	100
1904	100	100	100	100	100

The first of these is the fact that the population of the United States has increased from 39 million in 1900 to 76 million in 1904. This increase has been the result of a number of causes, including immigration, natural increase, and the fact that the population of the United States has been increasing at a faster rate than in any other country in the world. The second of these is the fact that the population of the United States has been increasing at a faster rate than in any other country in the world. The third of these is the fact that the population of the United States has been increasing at a faster rate than in any other country in the world. The fourth of these is the fact that the population of the United States has been increasing at a faster rate than in any other country in the world. The fifth of these is the fact that the population of the United States has been increasing at a faster rate than in any other country in the world. The sixth of these is the fact that the population of the United States has been increasing at a faster rate than in any other country in the world. The seventh of these is the fact that the population of the United States has been increasing at a faster rate than in any other country in the world. The eighth of these is the fact that the population of the United States has been increasing at a faster rate than in any other country in the world. The ninth of these is the fact that the population of the United States has been increasing at a faster rate than in any other country in the world. The tenth of these is the fact that the population of the United States has been increasing at a faster rate than in any other country in the world.

the patient with as little delay as possible and to give such instructions as to isolation and disinfection as the nature of the case may require.

We are a mining population with a large birth-rate, and as our houses are chiefly of the cottage property class the resources of the family are often severely taxed in order to provide sleeping accommodation for the children with a proper regard for the separation of the sexes. Under the circumstances home isolation is a physical impossibility so that hospital relief in all infectious sickness is a matter of the utmost importance alike in the interest of the person and the community at large.

Disinfectants.— These are supplied free of charge and your inspector himself often personally superintends their use. In addition to the ordinary disinfectants two tons of Carbolic Acid powder have been used during the year.

Disinfecting apparatus.— Our portable disinfecting apparatus is used on all possible occasions when the consent of the householder can be obtained. In all cases removed to Hospital all the contaminated articles are disinfected in this way. We make no exception to this rule. It is clearly as important to thoroughly disinfect contaminated articles as it is to remove infectious cases to Hospital. The apparatus is taken to the person's house and all disinfection is done free of charge.

Under the circumstances it is difficult to conceive why any reasonable or sensible person should object to this process of disinfection.

Hospital accommodation.— Our hospital is built of corrugated iron and was erected in 1893. In addition to the administrative block it has three wards each containing four beds. Very little, if anything is received in way of payment for maintenance while in the

hospital. Under the circumstances I should advise your Council to make it free to all.

The Northern Hospital, as you know, gentlemen, was set apart in 1902 for the exclusive treatment of Small-pox cases occurring within the Union. The two cottages at the "Jane Pit" were rented and put into order so as to be available for any emergency should additional accommodation be required.


The ordinary infectious cases were meanwhile to be treated in the Southern Hospital.

It has been arranged between the Houghton Rural and Urban Councils and the Hetton Urban Council to erect a permanent Small-pox Hospital for the use of the whole Union. The plans are being prepared by the architect and as a site has been chosen the work will be proceeded with at the earliest possible date. When finished, and ready for use the Northern Hospital will then revert to its original use.

One case of Small-pox was treated in the Hospital during the past year. The person in question was a tramp and was removed to the Hospital from the workhouse. He had been vaccinated and his case was a very mild one.

No cases were sent to the Southern Hospital from this district during the year.

Typhoid fever. - It will be seen by referring to the appended list giving the defects found on my rounds of inspection, how singularly free the cases were from those sanitary defects which are too often associated with Typhoid fever. A feature of interest in connection with the cases is the proportion of males to females which is almost the same as it was last year. In one case there was a very unpleasant smell coming from the floor of the house, in another the yard drain was overflowing



Digitized by the Internet Archive
in 2017 with funding from
Wellcome Library

<https://archive.org/details/b29437027>

and the ash-pit offensive. In another the drain was defective while in another the water supply had to be carried about a quarter of a mile and there was no drainage.

Our street ventilators have been causing trouble during the year. From time to time some of them had to be covered over owing to the complaints of the neighbours. I called your attention to the question gentlemen and your Council at once requested the surveyor to go into the matter and report fully to your Council. (See ventilation of houses.)

It can be readily understood that long rows of ash-pits close to the back doors are liable to become offensive during the hot summer months unless proper precautions be taken by the householders to deodorize the contents of the out-offices by putting under the seats each time the receptacles are used a shovelfull of dry ashes or some other deodorant, but alas, in many cases the people are too indifferent to consider their own comfort in this connection.

Water-closets as a substitute for privy ash-pits would no doubt be desirable provided there was a plentiful supply of water for the purpose which there is not and that the people could be relied upon to keep them clean and in working order; but unless properly looked after they might and would become a greater danger than well kept earth closets.

Scarlet Fever.— We have had cases of Scarlet fever in the district during the whole year. The disease has not been confined to any particular parish or place but on the contrary it has prevailed more or less over the whole district. As a rule it was mild in character often so mild, indeed, that a diagnosis at times was a matter of some difficulty. In such cases it is difficult to make the parents understand

that there is occasion or need for isolation. Of course the indiscriminate visiting at infected houses is still as common as ever, so that it is not surprising that the disease should be ever with us.

Erysipelas. - In my investigation of these cases I was struck with the complete absence of any sanitary defects or other conditions likely to account for their origin. With few exceptions the cases were ascribed to colds or chills and not a few had previously suffered from the disease.

Croup. - Of the three cases of Croup notified, two took place at Newbottle and the other at Canton Street, Newbottle. One of the cases was preceded by an attack of Whooping Cough.

Diphtheria. - Diphtheria still continues to be on the increase all over the country. A few years ago it was confined almost exclusively to towns and populous centres but lately it has shown a preference for rural and isolated districts. It is marvellous with what persistency it clings to certain places and houses, even after an interval of years notwithstanding the fact that all possible precautions have been taken to guard against subsequent attacks. There has been a substantial and gratifying decrease in the number of cases during the past year as compared with the previous year. A feature of interest in connection with the cases is the large preponderance of females over males. This is not an incidental feature or one peculiar to the cases of the present year only but has been a marked characteristic in this district for years back. A few of the cases were preceded by an attack of Scarlatina. I append a table giving all particulars with respect to date of notification, residence and result of inspection of premises.

8.

Measles. - Measles has been prevalent in the district more or less during the whole year. The cases were all of the usual type and indiscriminate visiting at infected houses no doubt had much to do with the spread and continuance of the disease.

Whooping Cough. - We have had the usual prevalence of whooping cough during the year, but the cases presented no features of special interest and the complications were of the usual kind.

Influenza. - Influenza has been more prevalent during the year than for some years back. The cases, however, were much milder in character and presented few of the complications which characterized the outbreaks of former years. The duration of the attacks too was much shorter.

Diarrhoea. - During the past two years we have been singularly free from summer diarrhoea. The few cases that come under my personal observation are more the result of improper and injudicious feeding than anything else. It can be readily understood that as the majority of our families, often badly ventilated, are erected close to the out-offices, articles of food are liable to become tainted unless proper precautions are taken during the summer months.

Chicken-pox. - Only a few cases of chicken-pox have come to my knowledge during the past year. They were all of the usual type and presented no difficulty or doubt as to the diagnosis.

Pneumonia, Bronchitis &c. - These diseases are now tabulated under their separate headings which is a decided improvement upon the old system which simply grouped them together under one term.

I have repeatedly remarked, gentlemen, that our mortality from chest affections is somewhat high. The cold East winds and the improper clothing of

infants and young children may be contributory causes. Nor can we overlook the possibility of the staple industry of the district as being a contributory cause also. Our houses as a rule are well built and substantially built, but in the Berrington district they are built chiefly on clayey land which must make them very cold in winter.

I have come across a few cases of Mumps during the past year. They were of the ordinary type and presented no features of special interest.

The other forms of sickness were of the ordinary kind and require no special mention.

Milk.—As I have repeatedly remarked gentlemen, we have in our district some of the finest milk to be found in the country. At one farm alone, where over eighty cows are kept, all the animals have been selected by the Tuberculine test so that the milk may be looked upon as free from all traces of tubercle.

Where the test is not applied the greatest care is taken in the selection of the animals both as regards condition and age so that we have every reason to consider our milk pure and of excellent quality.

Meat.—Our meat as you know, gentlemen, is mostly home fed and is of excellent quality. No proceedings have been taken by your Council for offering for sale meat of a doubtful or inferior quality.

Food and Drugs Act.—Proceedings under this Act are taken by the County Council.

Town Manure.—Much of the nuisance complained of through the importation of town manure into the district has been stopped by the application of your recently revised bye-law dealing with the subject. Only one complaint was made to your inspector but as the deposit was beyond the jurisdiction of your Council no action was taken.

Drains and Sewers. - These are regularly flushed and disinfected during the summer months and after periods of protracted drought.

Ventilation of Sewers. Our drains and sewers have been a great source of trouble during the year. Many complaints were made as to the offensive smells given off from some of the street ventilators. In some instances these were covered over with the result that the ventilation of our sewers has become seriously interfered with. I made special reference to this question in my reports with the result that your inspector was requested to go into the matter and report fully to your Council. He did so with the result that 11 ventilating shafts are to be placed in the district without delay. One will be placed between the South and Middle rows at Burnside another near to the Queen's Head, Newbottle; one each at the highest point in the South and North back lanes Newbottle; one at the end of Wellington Row, Philadelphia one at the ~~blank~~ blank end of the sewer in George Street; another at Langley Street and the end of Railway Terrace, New Herrington; one at Bow Row; one at Chandler Row, one close to Mr. Stewart's shop Shiny Row and one each at Cross Row, Success, Junction Row and the Woodhouses, Penrhaw.

House drains. - Our drains as a rule have a good fall into the main sewers and but for the carelessness of many of the occupiers in neglecting to keep the yard sinks clean, there would be no occasion to break into the drains so often as is done in some parts of the district.

Sewage disposal. - All obstructions have been removed from the culvert under the railway, and the arched roof taken away so that the flooding of the sewage farm and collection is better and more

there, such as took place two years ago cannot now be repeated.

Over-crowding. - Three cases of over-crowding, which were investigated and reported upon by your Medical Officer, have been dealt with, but in no instance has it been necessary to resort to legal proceedings in order to abate the nuisance.

Common Lodging Houses. - We have no such houses in this district.

Dairies and Bowsheds. - These are regularly and systematically inspected by your inspector. The owners afford him every assistance when on his rounds of inspection. They are well kept and the light and air-space are in accordance with your bye-laws, and there has been no over-crowding. Four new licenses have been granted during the year one at Sedgileck, two at Herrington Burn and one at Bog House.

Slaughter houses. - The animals are slaughtered in the shops and back premises but not in business hours. The places are inspected from time to time and as a rule they are well kept and orderly. The offal is at once removed to a suitable place. A fresh license has been granted during the year.

New houses. - I am indebted to Mr. Bulford for particulars respecting new buildings that have been erected during the year. Plans have been approved for 51 new buildings in the Northern Division of the Council's district during the year.

Scavenging. - This division is divided into 15 districts and the houses scavenged number 2644 which works out at something like $8\frac{1}{6}\frac{1}{2}$ per house per year. Upon the whole the work has been fairly well done. Only in one instance was it necessary to impose the penalty for failure for in the conditions of contract although I am prepared to

proceeded against for depositing the scavenged refuse so as to become a nuisance.

Water closets. - As far as I am aware only two new water closets have been substituted for the ordinary privy. Indeed, we have very few water closets in the district. Two defective water closets at Shinee Row were attended to, and a notice served upon the owner to provide a proper cistern is now pending.

Closets and privies. - The remodelling and repairing of the out-offices at Canton Street and the adjoining streets in New Herrington have been continued during the year and I understand it is the intention of the owners to finish the work as soon as possible.

At the same time, several new water closets and outhouses with substantial cement roofs have been built to replace the old privies and open ashpits.

Defective yard paving. - Although a number of yards in various parts of the district have been repaired, and otherwise done up there is still much to be done in this respect as in some places the paving has become worn and rotten.

Pollution of Herrington Burn. - After reconsideration it was decided to pipe the open sewer for a distance of 700 yards in substitution for the original scheme. A branch drain has also been carried from West Herrington and connected with the new sewer.

Wooden erections. - Too many of our back yards are crowded with wooden erections, thus seriously reducing the yard area and interfering with the free circulation of fresh air. The practice should be stopped.

London Woodhouse. - The paving and channelling here has been completed and the gutters cleaned and altered as indicated.

work, satisfactorily carried out.

New Sewerage - A surface water drain, which in the winter was liable to overflow and flood the houses in the front row, has been replaced by a properly constructed pipe drain of sufficient capacity to meet any emergency.

Reconstruction - All the houses at Cambridge have been thoroughly overhauled and put into a proper state of repair and are now inhabited.

Remodelling - The work of properly re-arranging the houses belonging to the executors of the late Mr. Bond has been remodelled according to plans and specifications approved by the Council.

Sanitation - It is a pleasure to report that the Corporation have been very successful in carrying out the purpose of looking after the sanitation of the district. A large amount of substantial work is annually carried out in this way. The Corporation are always ready and willing to carry out whatever improvements and improvements may be considered necessary in the interest of their employees and the public health of the district. I am indebted to Councillor Halliday for a report of the work done among the Colliery Farms during the past year.

Sanitation - A new building for the office has recently been erected by the Cambrian Collieries, Limited, for the use of their workmen employed at their wagon-repairing shop, Philadelphia.

The factories and workshops known to me in the district have been inspected in the usual way. I have reason to believe that these industries are in the interest but I have no official list to guide me. The premises are all well kept. The cleanliness, air-space, ventilation, floor drainage, and provision for public conveniences are all satisfactory.

to the work.

Spouting. - Very little has been done in the way of spouting during the year. At Bank Head, especially the spouting is very defective with the result that the roads here are all in a disgraceful condition during wet weather. I have previously brought this matter before your Council, gentlemen, and I beg again to draw your attention to the subject as it is one of some urgency.

Water supply. - As you know, gentlemen, our water supply is derived from a variety of sources. As the whole subject is quite familiar to your Council it is unnecessary for me to go over the ground again. There is a standing order to the effect that the water be analysed every year. On bringing the matter before your Council it was decided as there was no reason to suspect the purity of our drinking water to discontinue the practice for the present. Our water supply has been ample for all our requirements and I am not aware of any complaints having been received from any of the districts as to irregular or inadequate supply. The Urban Council, however, in view of a possible scarcity of water for their own requirements have given your Council notice that after January of the present year they will no longer supply Bank Head with water.

Drainage. - The drainage at Morton Engine, Railway Cottages, Black Boy &c. was satisfactorily completed early in the year.

Housing of the Working Class Act, 1890. - No notices now pending have been served under the above act during the past year.

The keeping of human pig-meat in the back yards is a practice which should be steadily put down.

The keeping of poultry &c. in the back yards, too, should also be stopped as it tends to unsightliness and interference with the yard area and air space.

In all possible cases the contents of the ashpits should be scooped direct into the carts in place of on to the roads. This is in accordance with the conditions of the contracts entered into by the contractors and should be strictly enforced.

I have visited the district from time to time, both alone and in conjunction with your inspector and all matters of importance found on our rounds of inspection were duly brought before your Council. I have to thank your inspector for his ready and willing co-operation in all matters relating to the sanitary condition of the district.

Death-rate.— Our death-rate is highly satisfactory and is considerably below the average death-rate for the county but our infant mortality is still high.

This is a matter which must be grappled with sooner or later as all over the country the question is engaging the serious consideration of all responsible bodies and persons for the growing evil must be found. Improper and injudicious feeding and want of care on the part of the mother is to a large extent responsible for this serious state of things.

In conclusion, gentlemen, I beg again to take this opportunity of thanking you for the courteous and cordial way in which my suggestions and recommendations are received by your Council and I venture to express the hope that if I have for

another year it will be the pleasure of your Council
to have the Annual Report of your Medical Officers
printed. More especially I believe we are the
only Council in the County who have so far failed
to carry out this recommendation.

I have the honor to be,

Respectfully,
Your Chairman and Gentleman.

Your obedient Servant

J. P. Park

Medical Officer.

An account of Sanitary improvements done to the houses belonging to the Lambton Collieries Limited during the year 1904.

January.	26 Travers St. New Herrington.	New door and frame.
	5 Railway Ter.	— do —
	49 — " —	New ceiling.
	49 Lanton St.	— do —
	4 East Row	Fixed new stove.
	14 Shop Row, Philadelphia.	Cemented kitchen floor and plastered walls to prevent dampness.
	22 Shop Row	Relayed wood floor in room.
	Wellington Row	Fixed stair case and stove.
	40 Long Row, Shiner Row.	Fixed tile ventilator.
	36 — " —	Fixed new ceiling.
	9 South St. Bank Head	— do —
	27 Hopper St.	Plastered walls to prevent dampness.
February.	22 Bank Row, New Herrington.	Fixed two doors and frames.
	21 Catherine Ter.	Fixed new door and frame.
	11 Long Row, Shiner Row.	Cemented kitchen floor.
	17 Wellington Row, Philadelphia.	Fixed new frames & doors in kitchen & back yard and cemented kitchen floor.
March.	10 Shop Row.	Fixed new stove.
	George St. W. New Herrington.	Cemented kitchen floor and fixed new ceiling.
	12 Denton Ter.	Cemented kitchen floor.
	57 — " —	New ceiling in bed. room.
	21 Catherine Ter.	Fixed doors and frames.
	21 Travers St.	— do —
	13 George St. W.	Fixed new window.
	11 Hagston Row, Philadelphia.	Cemented kitchen floor.
	5 R. Hopk. Row.	— do —

April.	24	Catherine Ter. New Herrington.	Fixed 4 new ceilings.
	1	Long Row ..	Fixed new door and frame.
	31	Railway Ter. ..	Fixed new ceiling.
	21	Traverso St. ..	Built new wash-house.
	2	Long Row Shiny Row.	Fixed new ceiling.
	2	Long Row. ..	Fixed new stove.
	10	.. ..	Fixed kitchen ceiling.
	10	.. ..	Cemented kitchen floor, fixed ceiling & new door and frame.
	3	Traverso St. Newbottle	Cemented kitchen floor.
	28	Wellington Row, Philadelphia	New wood floor.
May.	27	.. ..	Fixed tile ventilator.
	21	Chapel Row. ..	- do -
	1	Traverso St. Newbottle.	Cemented kitchen floor and fixed stove.
	2	Long Row, Shiny Row.	Fixed kitchen ceiling.
	3	.. ..	New wood floor.
	28	Barrack Row ..	Cemented passage floor.
	16	- " - ..	Bed-room ceiling.
	9	Wellington Row, Philadelphia.	New door and frame.
	15	- " - ..	Cemented kitchen floor.
	1	House in New Herrington.	New kitchen ceiling.
June.	1	Canton St. New Herrington.	Fixed new window.
	21	Catherine Ter. ..	2 new doors and frames.
	25	- " - ..	Fixed new window.
	11	Denton Ter. ..	New ceiling.
	14	George St. W. ..	New stove.
	14	- " - ..	- do -
	4	Barry's House, Penzance.	Cemented kitchen floor.
	26	West Row, New Herrington.	2 new doors and frames.
	18	- " - ..	Bed-room ceiling.
	23	- " - ..	New doors and frames.
	24	- " - ..	- do -
	10	Catherine Ter. ..	Kitchen ceiling, new door and frame.

June	26 Catherine Ter. New Herrington	2 Bed room ceilings and slatings.
	28 ..	2 New ceilings.
	29 London St.	2 Bed room ceilings.
	29 ..	Bed room ceiling.
	..	New door and frame.
	18 ..	- do -
	18 ..	Cemented Kitchen floor
	19 Faversham St.	New doors and frame.
	21 Long Row, Shining Row.	New ceiling, cemented room floor, fixed new door and Kitchen ceiling.
	26 ..	New door and frame.
	18 ..	Cemented Kitchen floor.
	22 Long Row.	12. 4 frame, new window.
	3 New Pit Homes, New Herrington.	Cemented walls to prevent dampness.
	5 Cross Row, Philadelphia.	New door and frame.
	14 Old Success	2 new doors and frames, Kitchen window & skylight.
	1 ..	Fixed dormer window.
July	15 George St. E. New Herrington.	Fixed bed room ceiling.
	1 ..	Cemented Kitchen floor & fixed
	..	2 doors and frames.
	..	Fixed new doors and frames.
	11 London St.	Cemented Kitchen floor.
	1 ..	New ceilings.
	12 ..	- do -
	18 Catherine Ter.	Kitchen floor.
	2 George St.	Cemented Kitchen floor.
	15 Barrack Row, Shining Row.	Fixed new window.
	8 Long Row.	Cemented Kitchen floor.
	14 Chandler Row.	Fixed bed room & Kitchen ceilings wood floor in bed room.
	6 London St. Newbottle.	Cemented Kitchen floor.

July.	4. Old houses.	Fixed window sashes.
	7. " "	do -
	William's Ter. Bank Head.	Fixed new siding.
	14 Front St. "	do -
August.	26 Long Row, Shirey Row.	Cemented kitchen floor.
	14 Chandler Row, "	2 windows & door frames.
	11 Row Row, "	Kitchen floor & door case.
	7 Mt. Success.	2 corner windows & door.
	8. " "	Floor cemented and fixed corner windows.
	27 Lawrence Street.	Kitchen floor.
	8th Farm, Herrington Farm.	2 ceilings & cemented floor.
	10 Spring Gardens, Philadelphia.	Fixing door and frame.
	11. " "	do -
	4. " "	do -
	12 Danton Ter. New Herrington.	New kitchen siding.
	22. " "	do -
	11. " "	do -
	24 West Row. "	do -
	5 Church St. Newbold.	New siding.
	7 William St. "	Plastered walls to prevent dampness.
	7 Front St. Bank Head.	do -
	28 Cement St.	Ceiling.
	Bridgeport.	Repairs plastering in 2 houses.
September.	16 Washington Row, Philadelphia.	Cemented kitchen floor.
	30. " "	do -
	12. " "	do -
	3. " "	do. & door frames.
	11. Mt. Success.	Cemented kitchen floor.
	11. Barrack Row, Shirey Row.	do -
	41 George St. W. New Herrington.	New door & frame.
	11. East Row. "	Cemented kitchen floor.
	23 Catherine Ter. "	Cemented bedroom & passage floor.
	27 George St. W. "	Fixed kitchen siding.

October.	20 East Row, New Herrington.	2 doors & frames for windows.
	1 North Row, New Herrington.	New window.
	12 East Row, Spring Row.	New wood floor.
	7 Long Row.	do.
	7 Thimble Row.	2 doors and frames.
	5 H. L. Row.	Fixed dormer window.
	4 " "	do.
	Green Row, Green Row.	Rebuilt W.C.
	24 Pleasant St. Brown Row.	Cemented Kitchen floor.
	2, Long Row.	Fixed door and window.
November.	1 Old Lane.	Fixed dormer window.
	10 East Row, Spring Row.	New ceiling.
	3 Bridge Row, New Herrington.	1 pair door frames.
	22 George St. W.	do.
December.	1/8 Chapel Row, Spring Row.	Cemented Kitchen floor.
	2 Lambton St. New Herrington.	do.
	21 George St. W.	Ceiling refixed in kitchen.
	Mrs Farrow's house, New Herrington.	Fixed 4 ceilings, cemented floor, re-laid wood floor, plastered walls, fixed 2 doors, frames and windows.
	Waterloo Row, New Herrington.	Rebuilt 32 Commences.
	Old Lane Row.	Took up main sewer and re-laid the same.
	Spring Gardens, Philadelphia.	Repaired sewer.
	Wellington Row.	Took up and re-laid day water mains to each house.
	Croft Row.	Fixed curb and channel the entire length of row.
	St. John's Row.	Took old house down & rebuilt it.
	Middleton's House.	Re-plastered walls.
	Rebuilt House, New Lambton.	New cement floor.

December.

Panohau, Straiths.

Re-built new house and
convenience & repaired sewerage.

Chickens house.

New wood floor. Sewer re-opened
and repaired.

Baron's house, Wood House.

New pantry & plastering.

Laurel

Fixed new ceiling.

Revised

New wood floor and sewer.

Whitefield Hill.

New wood floor & plastering.

Double Row, New Panohau.

New ceiling & wood floor.

Chapel Row.

Fixed ceiling.

New Panohau.

Re-opened sewer and
repaired the same.

Levenside.

22 South Row.

2 New ceilings.

18

do

16

do

17

do

21

do

24 Middle Row.

New stove.

23

Work ceiling, New window & door.

New room ceiling.

17

2 windows 2 doors & frames.

17

New doors and windows.

16

do

15

do

21

do

22

do

16, 22, 23,

24, 36 +

} North Row.

do

Fixed Kerb and Channel for the three streets and
re-opened sewer and repaired the same.

Scarlet Fever (continued)

Sept. 15	M	8	Philadelphia.	
" 15	M.	6	" "	
" 16	J.	8	Morton Grange.	
" 19	J.	3	Old Fenwick.	
" 19	J.	8	Philadelphia.	
" 24	J.	6	Hopper St. Dubuque.	
" 24	M.	2	" "	
" 25	J.	1	Success.	Condensed milk.
" 25	M.	7	Philadelphia	Secondary.
Oct. 1	J.	10	5 Hopper St. Dubuque.	
" 5	M.	12	Dubuque College	Back yard again choked and offensive.
" 8	J.	2	" " "	
" 11	M.	1	New bottle.	
" 14	J.	11	24 So. Sunnyside.	
" 17	J.	3	Bunker Hill.	
" 20	M.	3	37 Mid. Sunnyside.	
" 22	J.	3	New Fenwick.	
" 25	J.	6	14 Hopper St. Dubuque.	
" 26	J.	12	" " "	
" 28	M.	8	2 Clinton St.	
" 29	M.	3	12 William St.	
" 31	J.	2	14 Hopper St. " "	
Nov. 1	J.	4	34 Ferris St. E. N. H.	
" 2	J.	4	" " "	
" 3	M.	13	14 Hopper St. Dubuque.	
" 3	M.	9	" " "	
" 7	J.	7	37 Railway Ter. N. H.	
" 7	M.	11	14 Hopper St. Dubuque.	
" 10	J.	2	20 Canton St. N. H.	Not broken No. 11. 1000. 1000. 1000. 1000.
" 21	J.	14	Frank Ave.	
" 21	M.	6	" " "	
" 21	M.	7	72 Harrison Ave.	House damp & drains offensive.
" 23	J.	2	George St. E.	
" 24	J.	5	Harrison St. Dubuque.	

Scarlet Fever (continued)

May 1	M.	2	Shirley Row	
" 25	M.	-	13 Success	
" 25	F.	2	- - -	
" 25	M.	6	West Row N. H.	Condensed milk
" 26	M.	3	Bingle Row	
" 31	M.	3	Bright Yrs. Dubman	
" 31	M.	none	Newbottle	
June 1	M.	5 no.	- - -	
" 3	F.	3	Shirley Row	
" 9	M.	9	Catherine Ter N. H.	
" 18	M.	6	Morton Grange	
" 18	M.	3	Catharine Ter. N. H.	
" 28	F.	4	Philadelphia	
" 29	M.	8	Shirley Row	
July 5	F.	4	Clinton Hill	
" 6	M.	8	Shirley Row	
" 10	M.	5	Newbottle	
" 10	M.	1	- - -	
" 13	F.	10	Bright Yrs. Dubman	
" 13	M.	6	George Dr. Dubman	
" 19	F.	7	West Row N. H.	
" 20	M.	-	George Dr. Dubman	
" 20	M.	-	- - -	
" 26	F.	6	- - -	Secondary
" 28	M.	10	Shirley Row	
" 29	M.	3	George Dr. Dubman	
Aug. 9	F.	11	Shirley Row	
" 24	M.	6	- - -	Secondary
Sept. 2	M.	8	- - -	
" 5	F.	10	Bright Yrs. Dubman	
" 11	M.	1	Weymouth Row N. H.	Stitches in good order.
" 11	M.	5	- - -	
" 13	F.	7	- - -	
" 13	M.	-	- - -	

Houghton Rural District.

Scarlet Fever.

1904.	Sex	Age	Residence	Remarks
Jan. 13	M.	7	Shiny Row	Street gully frequently choked
" 19	M.	5	" " "	
" 31	M.	3	Grasswell Ter.	
Feb. 7	F.	10	Pennshaw Slate Yd.	
" 24	M.	7	Low Lambton	
" 24	F.	4	Longgreen	
Mar. 9	M.	9	Pratt Ter.	
" 23	F.	8	West Row, N. H.	
" 27	M.	11	Philadelphia	
Apr. 9	F.	4	Shiny Row	
" 9	F.	4	Newbottle	
" 12	F.	5	Brick Yd. Dubnive.	
" 12	M.	7	Shiny Row.	Condensed milk.
" 12	M.	13	Low Lambton	
" 12	F.	11	Shiny Row.	Strain choked.
" 20	F.	3	Brick Yd. Dubnive.	
" 23	F.	3	Shiny Row	
" 23	M.	2	" " "	
" 26	F.	2	Brick Yd. Dubnive	
" 27	F.	4	Shiny Row	
" 29	F.	3	" " "	
May 4	F.	6	George St. W. N. H.	
" 5	M.	7	Shiny Row.	
" 6	M.	4	Brick Yd. Dubnive	
" 12	M.	8	Shiny Row	
" 13	M.	7	" " "	
" 14	M.	7	Success.	
" 16	M.	2	Mrs. Lunnside	
" 17	M.	2	Newbottle	Convalescent from Measles
" 20	F.	7	Newbottle	

Houghton Rural District.

Typhoid Fever

1904.	Sex.	Age.	Residence.	Remarks.
Jan'y. 6	M.	16	Penton Ter. N. H.	
Feb'y. 14	F.	8	Chailway " "	
" 29	M.	2	Penton " "	Mother died last year.
Mar. 9	M.	7	Catharine " "	
" 25	M.	19	Buscees.	Smell from floor.
Apr. 18	M.	14	So. Burnside.	
May 18	M.	21	Shiney Row.	
" 20	M.	20	Newbottle	Yard drain overflows - offensive smell from ash-pit.
June 13	M.	32	-- " --	
" 23	F.	16	Mid. Herrington.	
July 9	M.	14	New Penrhaw	
" 9	F.	18	-- " --	
" 16	F.	8	Shiney Row.	
Aug. 4	M.	34	Hedworth Ter.	Drains good - Patient died.
" 4	M.	4	Penton Ter. N. H.	Drains defective.
" 17	F.	14	Bilkenworth Lane.	Water supply deficient - poor drains
Sept. 17	M.	22	Old Penrhaw.	
" 25	F.	17	Shiney Row.	
Oct. 3	F.	20	Spring Gardens.	
" 31	F.	2	Newbottle	
Nov. 11	M.	21	Front St. Submire.	
Dec. 5	M.	25	New Penrhaw.	
" 19	F.	24	Newbottle	

Houghton Rural District

Diphtheria.

1904.	Sex	Age.	Residence.	Remarks
Jan'y. 6	F.	5	Mid Summerville.	
Feb'y. 28	F.	10	Junction Row.	Had Diphtheria last year.
Ap'l. 3	F.	3	Catharine Str. N.H.	
" 11	F.	3	George St. W.	Dead on inspection.
" 16	M.	2	Catharine Str.	
May 11	F.	4	So. Summerville.	Unclearly known.
" 17	F.	6	Railway Cor. N. H.	
June 4	F.	25	So. Summerville.	
" 8	F.	-	Newbottle.	
" 23	M.	14	Junction Row.	
Sept. 19	F.	9	Shining Row.	All reported at once.
" "	F.	7	" " "	
" "	M.	5	" " "	
Oct. 3	M.	6	5 Newbottle Str.	Scarlet fever in the same house.
" 5	F.	6	25 Newbottle	Secondary.
" 5	M.	7	" " "	
" 11	M.	3	Philadelphia.	
" 17	F.	7	5 Lanson St. N. H.	
" 19	M.	9	Philadelphia	Secondary.
" 19	F.	6	Shining Row	
" 27	F.	5	Quarry Road.	
Nov. 14	F.	8	13 Fenton Str. N. H.	
" 25	F.	3	Quarry St.	
" 26	M.	1 1/2	" " "	
" 26	F.	12	Shining Row.	
Dec. 7	F.	4	" " "	Strain at back of throat.
" 8	M.	16	New Penobscot.	
" 14	M.	10	Newbottle	

Diary

Houghton Mineral District

Date	Day	Mo	Locality	Remarks
June 9	21	8	Ballville	
11	23	8	-	Shipping from Ballville mill
May 1	25	8	Center St. N.H.	

Essex

June 1	26	11	Pharmington	
11	27	11	Essex	
17	3	12	N.H. Farmington	
18	4	12	Quarry Road	
July 2	10	12	North St. Farmington	
1	9	12	North St. Farmington	
4	12	12	North St. Farmington	
May 1	8	14	North St. Farmington	
19	8	14	18 Long Row, Shiny Row	
Oct 3	8	14	Pharmington	
May 1	10	14	Center St. Farmington	Remains of mine
19	8	14	Center St. Farmington	
June 11	10	14	Traverse St. N.H.	
July 21	8	14	Essex	
June 10	8	14	Pharmington	
19	8	14	Center St. Farmington	
Oct 11	8	14	North St. Farmington	
Nov 14	8	14	Pharmington	From St. Hill
19	8	14	North St. Farmington	
21	8	14	N.H. Farmington	



TABLE I.

Vital Statistics of Whole District during 1904 and previous Years.

Name of District Rural District of Houghton - L. Spring.
(Northern Division)

YEAR.	Population estimated to Middle of each Year.	BIRTHS.		TOTAL DEATHS REGISTERED IN THE DISTRICT.				TOTAL DEATHS IN PUBLIC INSTITUTIONS IN THE DISTRICT.	Deaths of Non-residents registered in Public Institutions in the District.	Deaths of Residents registered in Public Institutions beyond the District.	NETT DEATHS AT ALL AGES BELONGING TO THE DISTRICT.			
		Number.	Rate.*	Under 1 Year of Age.		At all Ages.					Number.	Rate.*	Number.	Rate.*
				Number.	Rate per 1,000 Births registered.	Number.	Rate.*							
1	2	3	4	5	6	7	8	9	10	11	12	13		
1894.	13.750	572	40.8	81	144.1	229	16.6	4	-	2	231	16.7		
1895.	13.840	507	36.6	100	197	254	18.3	13	2	2	254	18.3		
1896.	13.940	539	38.6	92	171	261	18.7	1	-	2	263	18.8		
1897.	14.000	522	37.2	92	166.6	230	16.4	5	-	9	239	17		
1898.	14.150	507	38.8	112	270	252	17.8	11	-	11	263	18.6		
1899.	14.300	490	34.2	97	268	268	18.7	3	-	10	278	19.4		
1900.	14.450	574	39.7	94	163.6	228	15.7	9	-	9	237	16.4		
1901.	14.650	590	40.2	115	194.9	288	19.6	-	-	16	304	20.8		
1902.	14.818	578	38.5	78	137.3	234	15.8	1	1	8	241	16.3		
1903.	14.972	584	39	99	169.5	277	18.5	1	1	9	285	18.6		
Averages for years 1894-1903.	14.287	574	38	96	182.2 176.4	252	17.6	4	1	7	259	18.1		
1904.	15.129	587	38.7 38.7	112	190.8	269	17.7	-	x	56	278	18.6 18.1		

* Rates in Columns 4, 8, and 13 calculated per 1,000 of estimated population.

NOTE.—The deaths to be included in Column 7 of this Table are the whole of those registered during the year as having actually occurred within the district or division. The deaths to be included in Column 12 are the number in Column 7, corrected by the subtraction of the number in Column 10 and the addition of the number in Column 11.

By the term “Non-residents” is meant persons brought into the district on account of sickness or infirmity, and dying in public institutions there; and by the term “Residents” is meant persons who have been taken out of the district on account of sickness or infirmity, and have died in public institutions elsewhere.

The “Public institutions” to be taken into account for the purposes of these Tables are those into which persons are habitually received on account of sickness or infirmity, such as hospitals, workhouses and lunatic asylums. A list of the Institutions in respect of the deaths in which corrections have been made should be given on the back of this Table.

Area of District in acres }
(exclusive of area covered by water). } 9.950 acres

Total population at all ages 14.490

Number of inhabited houses 2.939

Average number of persons per house 5

At Census of 1901.

<p>I.</p> <p>Institutions within the District receiving sick and infirm persons from outside the District.</p>	<p>II.</p> <p>Institutions outside the District receiving sick and infirm persons from the District.</p>	<p>III.</p> <p>Other Institutions, the deaths in which have been distributed among the several localities in the District.</p>
<p><i>Infectious Hospital.</i></p>	<p><i>Union Workhouse.</i></p> <p><i>Sunderland Infirmary.</i></p> <p><i>Durham Co. Lunatic Asylum.</i></p>	
<p>Is the Union Workhouse within the District? <u><i>No</i></u></p>		

TABLE III.

Cases of Infectious Disease notified during the Year 1904.

Name of District *Rural District of Houghton & Spring (Northern Division)*

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.						TOTAL CASES NOTIFIED IN EACH LOCALITY.							NO. OF CASES REMOVED TO HOSPITAL FROM EACH LOCALITY.						
	At all Ages.	At Ages† — Years.					1	2	3	4	5	6	7	1	2	3	4	5	6	7
		Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 65.														
Small-pox ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Cholera ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Diphtheria ...	28	.	2	20	.	1	.	5	.	14	.	9	.	.	.	.	.	.	.	.
Membranous croup ...	3	1	2	.	.	.	.	1	.	2	.	.	.	.	.	.	.	.	.	.
Erysipelas ...	20	1	.	.	2	12	.	3	1	9	.	2	.	.	.	.	.	.	.	.
Scarlet fever ...	104	1	46	53	2	.	.	21	2	51	.	30	.	.	.	.	.	.	.	.
Typhus fever ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Enteric fever ...	23	.	2	6	11	4	1	5	.	8	.	8	1	.	.	.	.	.	.	.
Relapsing fever ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Continued fever ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Puerperal fever ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Plague ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
*
Totals ...	178	3	52	81	15	17	1	35	3	84	.	54	1	.	.	.	.	.	.	1

NOTES.—The localities adopted for this table should be the same as those in Tables II. and IV.

State in space below the name of the isolation hospital, if any, to which residents in the district, suffering from infectious disease, are usually sent. Mark (H) the locality in which it is situated, or if not within the district, state where it is situated, and in what district. Mark (W) the locality in which a workhouse is situated.

* This space may be used for record of other disease the notification (compulsory or voluntary) of which is in force in the district.

+ These age columns for notifications should be filled up in all cases where the Medical Officer of Health, by inquiry or otherwise, has obtained the necessary information.

Causes of, and Ages at, Death during Year 1904.

Name of District Rural District of Houghton - C. Spring.

(See Notes at Back.)

(Northern Division)

CAUSES OF DEATH.	DEATHS AT THE SUBJOINED AGES OF "RESIDENTS" WHETHER OCCURRING IN OR BEYOND THE DISTRICT.							DEATHS AT ALL AGES OF "RESIDENTS" BELONGING TO LOCALITIES, WHETHER OCCURRING IN OR BEYOND THE DISTRICT.							TOTAL DEATHS WHETHER OF RESIDENTS OR NON "RESIDENTS" IN PUBLIC INSTITUTIONS IN THE DISTRICT.
	All ages.	Under 1 year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.	Houghton C. Spring.	Houghton C. Spring.	Houghton C. Spring.	Houghton C. Spring.	Houghton C. Spring.	Houghton C. Spring.	Houghton C. Spring.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Small-pox ...															
Measles ...	12	4	6	2					5		2		5		
Scarlet fever ...	1		1							1					
Whooping-cough ...	7	4	3						1		3		3		
Diphtheria and membranous croup ...	6		5	1					3		2		1		
Croup ...															
Fever { Typhus ...															
Enteric ...	3		1			2			1		1		1		
Other continued															
Epidemic influenza ...															
Cholera ...															
Plague ...															
Diarrhoea. (See notes at back.)	3	3							1		1		1		
Enteritis. (See notes at back.)	9	7	2						2		5		1	1	
Puerperal fever. (See notes at back.)															
Erysipelas ...															
Other septic diseases...															
Phthisis, (Pulmonary Tuberculosis.)	6			2	1	3			1	1	1		3		
Other tubercular diseases.	12	1	8		2	1			4		4		4		
Cancer, malignant disease. (See notes at back.)	9					6	3		4		2		3		
Bronchitis ...	21	7	6			5	3		7		7		7		
Pneumonia ...	39	11	9	4	3	11	1	1	12	1	10	1	14		
Pleurisy ...	2					1	1				1			1	
Other diseases of Respiratory organs.															
Alcoholism)							1				1				
Cirrhosis of liver)	1														
Venereal diseases ...															
Premature birth ...	38	38							8		18	1	10	1	
Diseases and accidents of parturition.															
Heart diseases ...	16					7	9		3		3	2	8		
Accidents ...	108		1	1	1	8-6	1	1	1	2	5		1		
Suicides ...	2					1	1				2				
Senile decay	16						16	1	3		8		4		
Convulsions	13	10	3						2		6	1	4		
Marasmus	21	20	1						4		8		9		
All other causes ...	28	7	6	1	2	9	3		4		14		9	1	
All causes ...	278 ⁵	112	52	11	89	32	39	23	66	5	103 ⁵	5	88	4	—

NOTES.—(a) In this Table all deaths of "Residents" occurring in public institutions, whether within or without the district, are to be *included* with the other deaths in the columns for the several age groups (columns 2-8). They are also, in columns 9-15, to be *included* among the deaths in their respective "Localities" according to the previous addresses of the deceased as given by the Registrars. Deaths of "Non-residents" occurring in public institutions in the district are in like manner to be *excluded* from columns 2-8 and 9-15 of this Table.

(b) See notes on Table I. as to the meaning of "Residents" and "Non-residents," and as to the "Public Institutions" to be taken into account for the purposes of these Tables. The "Localities" should be the same as those in Tables II. and III.

(c) All deaths occurring in public institutions situated within the district, whether of "Residents" or of "Non-residents," are, in addition to being dealt with as in note (a), to be entered in the last column of this Table. The total number in this column should equal the figures for the year in column 9, Table I.

(d) The total deaths in the several "Localities" in columns 9-15 of this Table should equal those for the year in the same localities in Table II., sub-columns c. The total deaths at all ages in column 2 of this Table should equal the gross total of columns 9-15, and the figures for the year in column 12 of Table I.

(e) Under the heading of "Diarrhoea" are to be included deaths certified as from diarrhoea, alone or in combination with some other cause of ill-defined nature; and also deaths certified as from

Epidemic enteritis;
Zymotic enteritis;
Epidemic diarrhoea. Summer diarrhoea;
Dysentery and dysenteric diarrhoea;
Choleraic diarrhoea, cholera, cholera nostras
(in the absence of Asiatic cholera).

Under the heading of "Enteritis" are to be included those certified as from Gastro-enteritis, Muco-enteritis, and Gastric catarrh, unless from information obtained by enquiry from the certifying practitioner or otherwise, the Medical Officer of Health should have reason for including such deaths, especially those of infants, under the specific term "Diarrhoea." Deaths from diarrhoea secondary to some other well-defined disease should be included under the latter.

Under the headings of "Cancer" and "Puerperal fever" should be included all registered deaths from causes comprised within these general terms.

In recording the facts under the various headings of Tables I., II., III. and IV., attention has been given to the notes on the Tables.

J. P. Park Medical Officer of Health.

Date July 23 1905.